List of Irregularities

1. Original documents include very faint text that may be difficult to read. Some text is also slightly blurred.

COLLEGE LIBRARY
Pa. State College.

REGISTER

—: OF THE :—

MARYLAND

AGRICULTURAL COLLEGE

—: FOR :—

SESSION ENDING JUNE 25,

1878.

BALTIMORE:
HAGADORN BROTHERS, PRINTERS,
5 SOUTH CALVERT STREET,
1878.

THE MARYLAND AGRICULTURAL COLLEGE.

(*Without the Grove.*)

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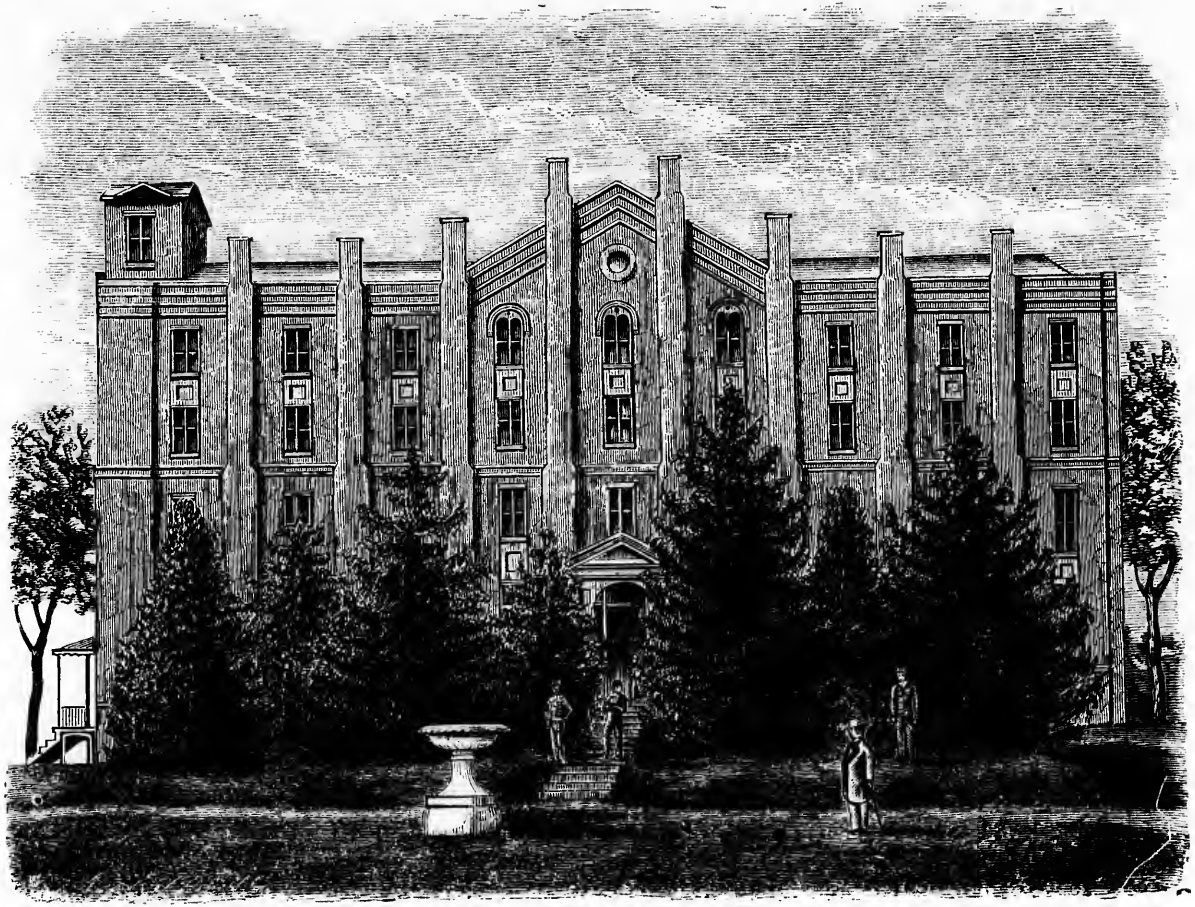

THE MARYLAND AGRICULTURAL COLLEGE.

(Without the Grove.)

REGISTER

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MARYLAND

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SESSION ENDING JUNE 25,

1878.

BALTIMORE:
HAGADORN BROTHERS, PRINTERS,
5 SOUTH CALVERT STREET,
1878.

Trustees.

Representing the State Ex-Officio:

HON. JOHN LEE CARROLL,

Governor of Maryland,

PRESIDENT.

HON. EDWARD LLOYD,

President of the Senate.

HON. FETTER S. HOBLITZELL,

Speaker of the House of Delegates.

PROF. M. A. NEWELL,

Principal of State Normal School.

Representing the Stockholders:

HON. JAMES T. EARLE,
MAJOR J. F. LEE,
E. WHITMAN, ESQ.,
ALLEN DODGE, ESQ.,
HON. JOHN MERRYMAN,
J. HOWARD McHENRY, ESQ.
CARROLL GOLDSBOROUGH, ESQ.

Visitors.

Hon. E. J. Henkle.....*U. S. House of Representatives.*
Mr. J. H. McHenry.....*Pikesville, Md.*
Mr. James L. McLean.....*Baltimore, Md.*
Hon. Henry Snyder .. ..*Baltimore, Md.*
Hon. James A. Bond.. ....*Prince Frederick, Md.*
Hon. Daniel Field ... .*Denton, Md.*
Hon. J. K. Longwell. ....*Westminster, Md.*
Hon. C. Mackall, M. D..... .. ..*Elkton, Md.*
Major Wm. B. Matthews.....*Port Tobacco, Md.*
Hon. Francis P. Phelps..... ....*Cambridge, Md.*
Hon. E. H. Steiner..... ....*Frederick, Md.*
Hon. John Daily.....*Oakland, Md.*
Henry D. Farnadnis, Esq.....*Belair, Md.*
Hon. A. P. Gorman..... .....*Laurel, Md.* Howard
Col. Edward Wilkins.....*Chestertown, Md.*
Hon. Nicholas Brewer, M. D.....*Rockville, Md.*
Hon. DeWitton Snowden, M. D..... *Laurel, Md.*
Hon. B. F. Ford.....*Centreville, Md.*
Hon. George R. Dennis.... ....*U. S. Senate.*
Hon. J. F. Dent..... .....*Leonardtown, Md.*
Hon. Edward Lloyd.....*Easton, Md.*
Hon. Z. T. Claggett.....*Hagerstown, Md.*
Hon. Humphrey Humphreys.....*Salisbury, Md.*
Hon. William J. Aydelotte.....*Snow Hill, Md.*
Hon. T. G. McCullough.....*Cumberland, Md.*

Faculty.

WILLIAM H. PARKER, PRESIDENT,

Professor of Civil Engineering and Astronomy.

THOMAS M. JONES,

Professor of Agriculture, Architecture and Drawing.

R. E. NELSON,

Professor of Physics and Applied Mathematics.

J. D. WARFIELD, A. M.,

Professor of English Literature, Mental Science and History.

WM. D. MORGAN, A. B.,

Professor of Chemistry and Natural History.

F. VON BROCKDORFF, LL. D.,

Professor of Ancient and Modern Languages.

.....

Professor of Mathematics.

C. J. SHIPLEY,

Superintendent of Farm and Instructor in Practical Agriculture.

MILITARY ORGANIZATION.

COL. T. M. JONES, - - - - - - - COMMANDANT.

The terms of the United States appropriation require military instruction. The course consists of regular drills and lectures upon tactics and the organization of armies. Military discipline is enforced, and cadets are required to appear in uniform when not engaged on the farm.

For the better instruction in Infantry Tactics and military police and discipline, the cadets have been consolidated into one company, under the command of the Commandant of Cadets. The officers and non-commissioned are selected from those cadets who have been most active and soldier-like in the performance of their duties, and most exemplary in their general deportment. This department will next year be in charge of an army officer of the U. S.

CAPTAIN,

T. TRUXTUN HOUSTON.

LIEUTENANTS,

E. G. BENSON, - - - - - - - - *Adjutant.*

SAML. CISSEL. JAMES JOHNSON.

SERGEANT MAJOR, - - - - - G. H. KENNARD.

QR. MASTER SERGEANT, - - - RICHARD MERCER.

SERGEANTS,

J. B. MORALES,

LOUIS JONES, THOS. SHOCK,

Q. C. TURNER, JOHN MATTHEWS.

CORPORALS,

WM. PORTER, LOUIS PELOUZE,

CHAS. WOOD, E. BALBIN.

List of Students.

1877-'78.

Name.	*Parent or Guardian.*	*Residence.*
Alexander, A.	*S. A. Alexander*	York, Pa.
Balbin, E. J.	*J. A. Echeverria*	Brooklyn, N. Y.
Bailey, H. O.	*W. H. Bailey*	Washington, D. C.
Benson, E. G.	*T. R. Benson*	Washington, D. C.
Bowman, H	*Mrs. M. E. Bowman*	Washington, D. C.
Brewer, F.	*General Brewer*	Baltimore, Md.
Briscoe, W. C.	*J. F. Briscoe*	Calvert Co., Md.
Brown, C.	*Hon. A. Saunders*	Washington, D. C.
Butler, M. C.	*Hon. M. C. Butler*	Washington, D. C.
Chabot, H. W.	*Mrs. M. A. Chabot*	Baltimore, Md.
Cheston, J., Jr.	*James Cheston*	A. A. Co., Md.
Cissel, S. N.	*B. J. Cissel*	Clarkesville, Md.
Clarke, P. H.	*Dr. P. Clarke*	Baltimore, Md.
Coates, L. E.	*P. Coates*	Fauquier Co., Va.
Claude, H.	*D. Claude*	Annapolis, Md.
Crosby, W.	*S. H. Crosby*	Catonsville, Md.
Dean, C. C.	*J. B. Dean*	Oakland, Cal.
Duncan, W. B.	*W. B. Duncan*	New York, N. Y.
Durborow, W. F.	*Wm. Strothers, Jr*	Philadelphia, Penn.
Duvall, M.	*Dr. M. Duvall*	Baltimore, Md.
Easter, A. M.	*J. W. Easter*	Owingsville, Md.
Easter, J. M.	*J. W. Easter*	Owingsville, Md.
Fitts, J. H.	*H. D. Bird*	Petersburg, Va.
Foster, W. G.	*Dr. M. W. Foster*	Baltimore, Md.

Name.	*Parent or Guardian.*	*Residence.*
GILLIS, H. A	*Capt. J. H. Gillis*	U. S. Steamer Franklin, Norfolk, Va.
GRIFFITH, R. S	*F. L. Griffith*	Friendship, A. A. Co., Md.
HALL, C	*Augustus Hall*	A. A. Co., Md.
HALL, H	*Augustus Hall*	A. A. Co., Md.
HOLSTON, A	*Mrs. J. J. Holston*	Hyattsville, P. G. Co., Md.
HOLSTON, R	*Mrs. J. J. Holston*	Hyattsville, P. G. Co., Md.
HOOE, R. E	*H. M. Hooe*	Beltsville, Md.
HORN, J. P	*B. Horn, Esq*	Baltimore, Md.
HOUSTON, T. T	*J. H. Saville*	Washington, D. C.
HYATT, A. B	*C. C. Hyatt*	Hyattsville, Md.
JOHNSON, W. H	*Capt. C. R. Johnson*	Baltimore, Md.
JOHNSON, J. F	*Capt. C. R. Johnson*	Baltimore, Md.
JONES, L. R	*Col. Roger Jones*	Washington, D. C.
KEY, F. S	*Mrs. C. H. Key*	Easton, Md.
KENNARD, G. H	*Geo. Kennard*	Hooversville, Md.
LEGARE, A. B	*Mrs. G. W. Legare*	Baltimore, Md.
LOOKER, H. B	*S. H. Looker*	Muirkirk, Md.
MATTHEWS, J	*W. B. Matthews*	Port Tobacco, Md.
MCCRARY, F. E	*Hon. G. M. McCrary*	Washington, D. C.
MEIXSEL, F. H	*Mrs. M. Meixsel*	Washington, D. C.
MERCER, R. S	*Mrs. E. Mercer*	A. A. Co., Md.
MILLER, G. F	*G. Miller*	Baltimore, Md.
MOORE, F. W	*Mrs. T. Moore*	Baltimore, Md.
MORALES, J. B	*A. G. Menocal*	Washington, D. C.
NORTH, E. T	*Capt. J. North*	Warrenton, Va.
PELOUZE, L	*Gen. L. H. Pelouze*	Washington, D. C.
PORTER, B. B	*B. B. Porter*	Baltimore, Md.
PORTER, R. L	*B. B. Porter*	Baltimore, Md.
PORTER, W. R	*B. B. Porter*	Baltimore, Md.
PHYTHIAN, C. F	*Dr. J. L. Phythian*	Newport, Ky.

Name.	*Parent or Guardian.*	*Residence.*
RAPLEY, R. R.	*W. W. Rapley*	Washington, D. C.
RICE, F.	*F. Rice*	Baltimore, Md.
ROMERO, B.	*Hon. F. Romero*	New Mexico.
ROSS, W. H.	*Mrs. W. H. Ross*	Cambridge, Md.
SANDERSON, D.	*Wm. Sanderson*	Washington, D. C.
SIMPSON, H.	*C. Sellers*	Philadelphia, Pa.
SHOCK, THOS.	*Com. W. H. Shock*	Washington, D. C.
SONNENSCHMIDT, A.	*Mrs. C. Sonnenschmidt*	Washington, D. C.
SONNENSCHMIDT, H.	*Mrs. C. Sonnenschmidt*	Washington, D. C.
TURNER, J. E.	*Thos. J. Turner*	Upper Marlboro, Md.
WALSH, G. M	*Mrs. J. C. Walsh*	Morristown, N. J.
WHITNEY, C. W.	*C. M. Whitney*	New York, N. Y.
WILLSON, A. B. M.	*Dr. W. G. G. Willson*	Easton, Md.
WITMER, J. C	*C. Witmer*	Washington, D. C.
WOOD, C. W.	*C. T. Wood*	Washington, D. C.

RECAPITULATION.

Maryland	38
District of Columbia	19
Virginia	4
New York	3
Pennsylvania	3
New Jersey	1
New Mexico	1
California	1
Kentucky	1
Total	71

GRADUATES OF 1875.

JOHN B. GRAY, B.A. F. B. HYDE, B.A.

CHARLES E. LERCH, B.S. LORION MILLER, B.S.

GRADUATES OF 1876.

W. J. BLAIR, B.S. JNO. L. WORTHINGTON, B.S.

T. H. THOMAS, B.S.

DEGREES CONFERRED IN COURSE.

MR. R. SAUNDERS HENRY, A.M.

REV. OLIVER C. MILLER, A.M.

GRADUATES OF 1877.

GEORGE THOMAS, B.S. E. G. EMACK, B.S.

SCOTT TRUXTUN, B.S. R. R. BEALL.

DEGREES CONFERRED.

F. C. NORWOOD, Frederick county, A.M.

L. A. GRIFFITH, Anne Arundel county, A.M.

HORACE M. DAVIS, Montgomery county, A.M.

PART FIRST.

—: THE :—

MARYLAND AGRICULTURAL COLLEGE.

The Maryland Agricultural College.

The College is situated in Prince George County, in full view of College Station, Baltimore and Ohio Railroad, nine miles north of Washington and twenty-eight south of Baltimore. Seventeen trains, seven from Washington and ten from Baltimore, stop at College Station daily.

The farm contains 286 acres.

The soil varies in quality and condition, thus affording good opportunity for experiments. There are meadows artificially drained, dry bottom-lands and rolling high-lands. Heavy oak timber is in abundance. A large running stream affords sufficient water-power. The farm is traversed by the old road between Washington and Baltimore. Its proximity to Washington secures for it many advantages in the Agricultural Department and scientific institutions and libraries connected with the General Government.

The building is an imposing structure of brick, of Gothic architecture, 120 feet long, 54 feet wide, 6 stories high, relieved by an east and south portico. The basement contains the Dining Room, Kitchen, Pantry, Wash Room and Bakery. On the first floor are the Laboratory, Museum, Chapel, Bath Room, Department of Languages and Preparatory Department. On the second floor, the Parlor, Visitors' Room, President's Room, Register's Office, Commandant's Office, Officer of the Day's Room, English, Agricultural and Mathematical Lecture Rooms, Society Hall and Library. The chambers are large, well ventilated, well heated and lighted throughout with gas.

The fruit and flower gardens are varied, attractive and beautiful. A natural forest of oaks gives abundant shade. Mounds, terraces, gravel-walks, evergreens flowering bushes, shrubs, &c., adorn the grounds.

Course of Instruction.

The branches of study are grouped under the following departments:

1. Civil Engineering and Astronomy.
2. English Literature, Mental Science, and History.
3. Pure Mathematics.
4. Physics and Applied Mathematics.
5. Agriculture, Architecture and Drawing.
6. Chemistry and Natural History.
7 Ancient and Modern Languages.

The Course of Study embraces the following subjects:

Department of Civil Engineering and Astronomy.

ASTRONOMY.—Descriptive and Practical.

PHYSICAL GEOGRAPHY.—Maury and Guizot, with Maps.

CIVIL ENGINEERING.—Drawing, Materials, Bridges, Railroads, Tunnels, Canals, &c., &c., Running Lines and Curves for Common Roads and Railroads, Levelling, &c., &c. Explanation of Geodetical Surveys; practical work in Surveying and Plotting, &c., &c.

LECTURES

TEXT-BOOKS.

Lockyer's Astronomy; Herschel's Outlines; Chauvenet's Practical Astronomy; Loomis' Surveying; Gillespie's Surveying; Mahan's Civil Engineering; Rankine's Civil Engineering.

Department of English Literature, Mental Science and History.

ENGLISH.—The History, Usage, and Grammatical Structure of the English Language; History of English Literature; Rhetoric; Composition; Elocution.

MENTAL SCIENCE.—Mental and Moral Science; Logic; History of Philosophy.

HISTORY.—History of Greece, Rome, England, United States; Outlines of History; History of European Civilization.

LAW.—Commentaries on Constitution of United States; Constitution of Maryland.

LECTURES.

TEXT-BOOKS.

ENGLISH.—Abbott & Seeley's English Lessons; Shaw's History of the English Language; Taine's English Literature; Hart's Composition and Rhetoric; Marsh's Lectures upon the English Language.

MENTAL SCIENCE.—Upham's Mental Philosophy; Seeley's Schwegler's History of Philosophy; Schuyler's Logic; Hamilton's Lectures; Haven's Moral Philosophy; Butler's Analogy.

HISTORY.—Freeman's General Sketch; Hume's England; Smith's Greece; Liddell's Rome; Guizot's European Civilization.

LAW.—Story on the Constitution; Constitution of Maryland; Political Economy.

Department of Mathematics.

ALGEBRA.—Reduction and solution of Equations of the first and second degrees; Proportions and Progressions; nature and construction of Logarithms; and the theory of Equations.

GEOMETRY.—Plane and Solid.

TRIGONOMETRY.—Analytical investigation of Trigonometrical Formulas, and their application to the solution of all the cases of Plane and Spherical Trigonometry; the Construction and Use of Trigonometrical Tables.

APPLICATION OF ALGEBRA AND TRIGONOMETRY.—Mensuration of Planes and Solids.

DESCRIPTIVE GEOMETRY.—The graphic illustration and solution of problems in Solid Geometry; Projections of the Sphere.

ANALYTICAL GEOMETRY.—Equations of the Right Line, Plane, and Conic Sections; principal problems relating to the Cylinder, Cone, Sphere and Spheroids.

LECTURES on Shades, Shadows and Perspective.

BOOK-KEEPING.

TEXT-BOOKS.

Loomis' Algebra; Ray's Higher Algebra; Todhunter's Algebra; Schuyler's Geometry; Loomis' Geometry; Chauvenet's Geometry; Loomis' Trigonometry and Mensuration; Chauvenet's Trigonometry; Church's Descriptive Geometry; Loomis' Analytical Geometry; Todhunter's Conic Sections.

BOOK-KEEPING.—Hanaford and Payson.

Department of Physics and Applied Mathematics.

THE DIFFERENTIAL AND INTEGRAL CALCULUS.—The principles of the Differential Calculus, including Taylor's Theorem, application to problems of Maxima and Minima, and the tracing of Curves; the methods of Integration, and the application of the Integral Calculus to Areas, Surfaces and Volumes, and to the finding of Centres of Gravity and Moments of Inertia, and to the simpler cases of Differential Equations.

MECHANICS —Statics; Dynamics.

HYDROSTATICS.—Mechanical Properties of Fluids; Specific Gravity, &c., &c.

ACOUSTICS.—The production and propagation of Sound; modes of Vibration, &c., &c.

OPTICS.—Lenses, Vision and Optical Instruments; Spectrum Analysis; Color, &c., &c.

ELECTRICITY AND MAGNETISM.—Magnetism; Voltaic Electricity, &c., &c.

HEAT.—Theories of Heat; Sources of Heat; Instruments used for the Measurement of Heat; Thermo-dynamics.

TEXT-BOOKS.

Loomis' Differential and Integral Calculus; Courteny's Calculus; Buckingham's Calculus; Wells' Natural Philosophy; Ganot's Natural Philosophy; Cambridge (England) Course of Elementary Natural Philosophy; Todhunter's Mechanics for Beginners; Rankine's Applied Mathematics; Smith's Hydrostatics; Bartlett's Acoustics and Optics; Jenkins' Electricity and Magnetism; Maxwell's Theory of Heat; Peck's Mechanics.

Department of Agriculture, Architecture and Drawing.

AGRICULTURE.—General Agriculture; Civil Engineering, applied to Farm Roads, Bridges, Embankments, Drainage, etc.; application of Chemistry to Agriculture; use of Implements; Breeding and Care of Stock; Dairy; Gardening; Fertilizers; Botany; Horticulture; Geology; Arboriculture; Exercises on the Farm, &c., &c.

LECTURES on Veterinary Medicine and Surgery, and on the relations of Agriculture to Commerce, Manufactures, Labor, &c.

ARCHITECTURE.—Drawing; Materials, Masonry, Carpentry, Foundations, Orders, etc.

LECTURES.

TEXT-BOOKS.

The Progressive Farmer, by J. A. Nash; Connection between Science and the Art of Practical Farming, by J. P. Norton; Chemical and Field Lectures, by James E. Leschmaker; Farmers' Guide, by H. Stephens and Prof. Norton; Farm and Fireside, by John L. Blake; Allen's American Farm Book; How Crops Grow; The Plough, the Loom and the Anvil, by J. S. Skinner & Sons; Youatt and Martin on the Horse, Cattle, &c.; Peter Henderson on Gardening for Profit; Architecture and Right Line Drawing, by Walter Smith.

Department of Chemistry and Natural History.

CHEMISTRY.—Organic and Inorganic Chemistry; Qualitative and Quantitative Analysis; Detection and Separation of the Elements; Manufacture and Application of Manures; Manufacture and Application of Chemicals; Blow Pipe; Organic, Volumetric, Microscopic and Spectroscopic Analysis; Chemistry Applied to the Arts and Manufactures; Agricultural Chemistry; Toxicology.

NATURAL HISTORY AND SCIENCE.—Zoology; Mineralogy; Physiology; Metallurgy; Photography; Telegraphy and Printing.

TEXT-BOOKS.

CHEMISTRY.—Fownes', Fresnius', Steele's.
AGRICULTURAL CHEMISTRY.—Johnson's.
ZOOLOGY.—Nicholson's Text Book.
MINERALOGY.—Danna's.
PHYSIOLOGY.—Flint's.
METALLURGY.—Percy's.
TELEGRAPHY.—Culley's.
SPECTRUM ANALYSIS.—Roscoe's.
MICROSCOPIC ANALYSIS.—Carpenter's.
VOLUMETRIC ANALYSIS.—Sutton's.
BLOW PIPE ANALYSIS.—Elderhorst's.
TOXICOLOGY.—Taylor's.

Department of Ancient and Modern Languages.

LATIN.—Grammar, Reader, Cæsar, Ovid, Virgil, Cicero, Horace, Sallust, Livy, Tacitus.

FRENCH.—Grammar, Reader, Classics, Colloquial Exercises.

GERMAN.—Grammar, Reader, Classics, Colloquial Exercises.

TEXT-BOOKS.

Fasquelle's Grammar; De Fivas' Grammar; Collott's Dramatic French Reader; Erkmann-Chatrain's Le Conscrit; Ollendorf's German Course; Cæsar; Ovid; Cicero, &c., &c.

The Course of Instruction extends over four years, and the course for each year is as follows:

Freshman Class.

SCHOOL OF ASTRONOMY, &C.—Physical Geography.

SCHOOL OF ENGLISH LITERATURE, &C.—English Lessons; Composition; Rhetoric; Outlines of History; Elocution; History of England.

SCHOOL OF MATHEMATICS.—Algebra; Geometry; Plane Trigonometry; Mensuration; Book-Keeping.

SCHOOL OF PHYSICS, &C.—Elementary Natural Philosophy.

SCHOOL OF AGRICULTURE.—Botany; How Crops Feed and How Crops Grow, and Gardening for Profit; Exercises on the Farm.

SCHOOL OF CHEMISTRY.—Organic and Inorganic Chemistry; Zoology.

SCHOOL OF LANGUAGES.—Latin, (optional,) French or German.

Sophomore Class.

SCHOOL OF ASTRONOMY, &C.—Field Surveying.

SCHOOL OF ENGLISH, &C.—Rhetoric; Composition; Elocution; History of Greece; History of Rome.

SCHOOL OF MATHEMATICS.—Spherical Trigonometry; Descriptive Geometry; Analytical Geometry.

School of Physics.—Todhunter's Mechanics for Beginners; Optics; Acoustics; Hydrostatics; Electricity and Magnetism.

School of Agriculture, &c.—Geology; Exercises on the Farm; Allen's Farm Book; Stephen's Farmers' Guide.

School of Chemistry, &c.—Qualitative Analysis; Detection and Separation of the Elements; Agricultural Chemistry; Manufacture and Application of Manures; Mineralogy.

School of Languages.—Latin, (optional,) French or German.

Junior Class.

School of Astronomy, &c.—Practical Astronomy.

School of English Literature, &c.—Mental Philosophy; History of the English Language; History of English Literature; History of Civilization in Europe; Essays and Declamation.

School of Mathematics.—Shades, Shadows and Perspective.

School of Physics, &c.—Differential and Integral Calculus.

School of Agriculture, &c.—General Agriculture; Horticulture; Arboriculture; Landscape Gardening; Lectures on Veterinary Anatomy; Physiology and Surgery; Exercises on the Farm.

School of Chemistry, &c.—Qualitative and Quantitative Analysis; Organic Analysis; Blow Pipe Analysis; Manufacture and Application of Chemicals; Physiology; Metallurgy; Toxicology.

School of Languages.—Latin, (optional,) French or German.

Senior Class.

School of Astronomy, &c.—Civil Engineering.

School of English Literature, &c.—History of Philosophy; Moral Philosophy; Logic, Essays; Original Declamation.

School of Physics, &c.—Rankine's Applied Mathematics.

School of Agriculture, &c.—General Agriculture; Civil Engineering applied to Farm Roads, Bridges, &c., &c.; Architecture; Lectures on the relation of Agriculture to Commerce, Manufactures, &c.; Exercises on the Farm.

School of Chemistry, &c.—Chemistry applied to the Arts and Manufactures; Quantitative Analysis; Volumetric, Microscopic and Spectroscopic Analysis; Assays—Telegraphy; Photography.

School of Languages.—Latin, (optional,) French or German.

Department of Agriculture.

Students, without exception, will be drilled in the uses of implements and machines; in feeding stock, harvesting, driving; in grafting, budding and pruning; in planting, cultivating and harvesting; in road-making, bridging and surveying; in buying, selling and book-keeping. A greenhouse will be instituted; a museum of all productions of the State will be collected; experiments, testing the accepted theories of agricultural science, will be undertaken and the results fully published. Professors and eminent practical farmers will deliver regular lectures upon the theory and practice of agricultural science. Class-lectures and recitations in scientific agriculture will be accompanied by a regular course of lectures upon agricultural chemistry.

Special lectures in veterinary science will be given.

A work-shop will be erected, and students encouraged to master all the requirements of farmers.

Students in charge of the Professor of Agriculture will have opportunities for visiting the Agricultural and other Departments at Washington.

DEGREES.

I. The Degree of Bachelor of Arts will be conferred upon those who graduate in all the Schools.

II. The Degree of Bachelor of Science will be conferred upon those who graduate in the Schools of Astronomy and Civil Engineering, English Literature, Mathematics, Physics, Chemistry and Languages.

III. Students who pass satisfactory examinations in the Schools of English, Mathematics, Agriculture and Chemistry, will be declared graduates in Agriculture.

IV. Those who take the Degree of Bachelor of Arts or Bachelor of Science, and devote themselves to study for three years thereafter, will be entitled to the Degree of Master of Arts or Master of Science.

EXAMINATIONS.

A semi-annual examination, in the presence of the Faculty, is held the last week of the first term.

Monthly examinations at the blackboards are required in all the departments.

The Annual Examination begins about June 15th, and ends June 25th, and is both written and oral.

Students who fail to pass satisfactory examinations at the end of each term, are not allowed to continue with their classes.

MARKS.

The scale of marks for recitation and exercises ranges from 4 to 0. A mark of 4 indicates thoroughness; 0, a total failure; the intermediate numbers indicate absolute values.

A mark of 2.5 represents the minimum of proficiency. Students whose final average for the term or year in any branch falls below that number, are liable to be turned back to the next class.

GOLD MEDAL.

The highest scholarship will next year be rewarded by a gold medal.

MERIT-ROLLS.

At every annual examination, the Faculty forms a merit-roll of each class in the following manner:

The final average of each student in each branch for which a coëfficient is assigned in the table of coëfficients, is multiplied by such coëfficient, and the sum of the products, after making the deduction for conduct, is the final multiple for the year.

The names of the students are arranged according to the final multiple, the highest multiple being placed first on the list, and the others in their order; but no class number is assigned to any found deficient.

Monthly Reports, showing the progress and standing of students, are sent to parents.

Attention is respectfully called to these Reports.

VACATION AND TERMS.

The scholastic year is divided into two terms, with but one regular vacation, beginning the last week of June, and closing about the middle of September; and a short intermission at Christmas and Easter.

No other furloughs will be granted, except in urgent cases.

The first term opens on the 20th of September, and closes with the month of January. The second term begins 1st of February, and ends with the college year, the last of June.

EXPENSES.

PAYABLE IN ADVANCE.

For Students from the State of Maryland and District of Columbia:

First Term.—Board, Lights, Washing, use of Furniture and Room Rent	$100 00
Matriculation Fee	5 00
Total	$105 00

Second Term.—Same as the first, less the Matriculation Fee.

For Non-Residents of the State of Maryland and District of Columbia:

First Term.—Board, Tuition, &c	$137 50
Matriculation Fee	5 00
Total	$142 50

Second Term.—Same as first, less the Matriculation Fee.

Students from the State of Maryland and District are received free of charge for tuition. They are allowed, also, the use of books; but it is recommended that they should purchase the same, if in their power.

Day scholars are charged two dollars a month for use of rooms, fuel, &c.

Students having a constant fire in their rooms are charged two dollars a month extra.

Prepayment in every case is required, unless satisfactory arrangement be made with the President of the Faculty for settlement by note at short date.

No deduction will be made for absence, except in case of protracted illness; nor will money be refunded in case a student be withdrawn or dismissed during the term, unless at the discretion of the President.

Special damages are assessed on those who unnecessarily injure or destroy College property.

STATE FAIR.

Students will be taken to the State Fair to be held September 27th. Early applications are, therefore, necessary to secure uniforms in time to attend.

UNIFORM AND OTHER CLOTHING.

As the students are required to wear a prescribed uniform, it is only necessary to bring a suit for farm work. Arrangements are made with a competent tailor who supplies the uniforms. The cost, with cap, is from $21 to $24.50.

Students must bring a supply of towels, napkins, bed-linen and *white Berlin gloves;* all articles of clothing must be marked.

REQUISITES FOR ADMISSION, &c.

Students will be received, examined and assigned to their proper classes at any point in the College course; those who cannot pass good examinations in Reading, Writing, Arithmetic, Grammar, Geography, and History of the United States, will not be allowed to begin the course. All not so qualified will be entered in the Preparatory Department. A room having been fitted up for this purpose, special instruction will be given all those who wish to prepare for the Freshman Class.

Applications for admission, or for further information, should be addressed to the President of the Maryland Agricultural College, College Station, Prince George County, Maryland.

FIRE BRIGADE.

The Fire Brigade includes in its organization every person connected with the College and Farm. Students, at the fire-alarm, proceed to such stations as are designated in the fire-bill. Exercises in fire-drill will take place at such time as the President may direct.

DISPENSARY.

The Professor in charge of the Dispensary will visit, report and attend all cadets unfit for duty by sickness.

RELIGIOUS SERVICE.

Daily morning prayer and Divine Service, on Sunday, are regularly held in the Chapel. Students are required to attend unless a written request to the contrary be made. Students shall observe the Lord's day with decorum.

DISCIPLINE.

The following laws will be strictly enforced by the officer-in-charge :

1. Students shall not go beyond the limits of the farm ; use fire-arms ; sit up after taps ; use the south portico ; hold any general meeting ; visit the dining-room or kitchen, without permission from the President.

2. Profane language, card playing, gambling, intoxication, or any of their attendant vices, will not be tolerated by the Faculty. Any student known to indulge in habits injurious to the morals of the College, or calculated to destroy its established order, shall be immediately dismissed.

3. Destruction of property, disorderly conduct, in the halls, on the grounds, on furlough, or any other violation of the published orders of the President, or officer-in-charge, will be punished by tasks, demerits, guard duties, and such other punishments as the Faculty may decide.

4. Members of the Faculty and all officers-in-charge are required to report any violation of these regulations.

5. Upon matriculation, each student will be furnished with a copy of these and other regulations, and will be required to obey them.

PART SECOND.

REPORT OF FARM SUPERINTENDENT.

Report of Superintendent of Farm.

MARYLAND AGR. COLLEGE,
June 26, 1878.

President Wm. H. Parker:

SIR:—As requested by you, I give this, my first annual report, as Superintendent of Farm. June 13th, 1877, I was appointed. It being mid-summer, all crops were planted, and I will proceed to give results. I propose to open an account with each field; credit the same with crops produced and charge it with cost of culture, seed and manures used; then state results, giving the crops now in the ground, with their prospects.

Field No. 1 contains twelve acres; is worked more as a truck-patch than for regular farming. Two acres and a half were in potatoes; product, 300 bushels. Two acres, in corn; product, 12 barrels. Three acres, in clover; product, 2 tons hay. One acre, in sugar-beets; product, 145 bushels. Remainder of field, in swamp and pines.

CR.

By 300 bus. potatoes, 75 cts. per bus.		$225 00
12 brls. corn, $2.50 per brl.		30 00
145 bus. sugar-beets, 25 cts. per bushel.		35 25
2 tons hay, $12 per ton.		24 00
		$314 25

DR.

To Ploughing and after-culture, 8½ acres, at $5 per acre.	$ 42 50	
Manures used.	43 77	
25 bus. seed, $1 per bus.	25 00	
Harvesting hay.	4 00	
		$115 27
		$198 98

This field is now all under culture, except a small lot of pines. The swamp has been drained; ditching tiles have been successful in drying the land The same is now sown in broad-cast corn, to be fed to cattle while green during the summer.

An apple and peach orchard of one hundred and fifty-four trees was planted on three acres of the lot, all of which are growing and look thrifty.

Two and a half acres are now in potatoes; ½ acre in peas; two acres in oats, seeded down in clover and timothy; two acres were sown in rye last fall. It was thoroughly manured, cut and fed to cattle while green this spring, except a small portion left to mature.

Field No. 2 contains about three acres. On it is a young orchard of apple, peach, cherry and pear trees, all of which need much care to reclaim them; the land was poor, and trees much neglected. This orchard has been thoroughly manured and one-half of it planted in potatoes.

Field No. 3 contains forty-eight acres, about one-half in wood. Is now a pasture, and has apparently been idle for some years. It is badly washed and needs attention.

Field No. 4 contains twenty-six acres This field I found planted in corn It did not promise well; the field lays flat or dish shape; it was too wet for the corn to grow;—in consequence, about eight acres produced a short crop.

CR.

Product of Field.

150 brls. corn at $2.50 per brl		$375 00
Value fodder per acre, $4.00		104 00
25 cart-loads pumpkins @ $1.00		25 00
		$504 00

DR.

Plowing and after-culture, $5.00 per acre	$130 00	
Fertilizers	125 00	
Seed corn	6 00	
2 tons plaster	20 00	
Husking and lofting corn	40 00	
		$321 00
		$183 00

This field had one thousand bushels of lime applied on about ten acres after being plowed in the spring.

The above field was sown in oats this spring, except four acres. Three acres were sown in barley. One acre was sown in wheat last fall, in experimental plats, under direction of the Professor of Agriculture, in whose report it will appear. The oats were drilled in, one bushel per acre, with two hundred and seventy-five pounds "Raw Bone" per acre. The crop looks well at this time.

This field, after harvest, will be plowed and sown in wheat. It is very desirable that it should be drained before seeding; it will well repay cost and is essential to successful culture.

Field No. 5 contains twenty-five acres; was in grass last year. On about one-half the grass was thin, and all of it more or less filthy. Our grass fields are full of the weed known as white blossom or Carolina pink. This whole section of country is filled with it. Twenty tons of rough hay were harvested from this field.

CR.

By 20 tons hay, $12.00 per ton.....$240 00

DR.

To harvesting and stacking.....$ 40 00

$200 00

The above field was plowed last fall and planted in corn this spring. Two hundred pounds of dissolved bone, per acre, were applied in the hill. The corn came up well, and, although very grassy at this time, caused by continued wet weather, will soon be remedied when the land is in order to work.

Field No. 6 contains 48 acres in front of College building. In grass, last year, it had well nigh run out and was very filthy, but was all mown over.

23 tons hay (rough) were saved. The weeds and other filth were hauled to bare places in field No. 3 and stacked up; the cattle were allowed to run to it in fall and early winter; the remainder was burned to prevent the spread of seed.

CR.

By 23 tons hay, $12.00 per ton $276 00

DR.

To harvesting and securing ..... $ 46 00

$230 00

The crop in field No. 6, for this year, is as follows: 25 acres in wheat, on which three varieties were sown, namely: 10 bushels of Clawson, 10 of Amber, 10 of Fultz. Manures applied: 1 ton "Bone Ash," two tons "Flour of Bone," 1 ton "Phosphate of Bone;" 4 acres in rye, on which Turner's "Excelsior" was used On both wheat and rye, 300 pounds to the acre were applied, and 1 bushel of grain. The wheat promises well thus far; 10 acres were ploughed for corn last fall and planted this spring, on which "dissolved bone" was applied in the hill at the rate of 300 pounds per acre. Corn came up well and promises a good crop.

Field No. 7 contains 33 acres of cleared land, with about 15 of wood and swamp; 21 acres in wheat last year and 12 acres in oats yielded as follows:

CR.

By 418 bus. wheat at $1.46 per bus	$610 28
25 tons straw, $4 per tou	100 00
430 bus. oats, 33 cents per bus	141 90
8 tons oat straw, $4 per ton	32 00
	$884 18

DR.

To Ploughing and seeding 33 acres at $3 per acre	$ 99 00	
Manures applied	251 44	
Cost of seed	45 00	
		$395 44
		$488 74

The above field was seeded in timothy and clover, but did not take well; it will have to be ploughed this fall; crop of grass will be light.

We have been using fertilizers liberally and depend largely upon them for our crops. It is my opinion that lime, though not so quick in its action, is just what our low lands need. The quantity already used has been decidedly beneficial.

Field No. 8 is a garden and contains 10 acres, 3 acres of which are in a peach orchard, seven years old,—leaving but 7 acres therefore for garden vegetables.

Following is the report of Gardener :

CR.

Peaches, 118 bushels, 50 cts. per bushel		$ 59 00
60 bushels sweet potatoes at $1.00 per bushel		60 00
57 bushels tomatoes at $1.00 per bushel		57 00
1,400 head of cabbages, 3 cts. per head		42 00
19 bushels carrots, $1.00 per bushel		19 00
6 bushels onions, $1.00 per bushel		6 00
150 egg-plants, 5 cts. apiece		7 50
14 bushels peas at $1.00 per bushel		14 00
80 dozen corn at 10 cts. per dozen		8 00
6 bushels okra, $2.00 per bushel		12 00
Cucumber pickles, 6 bushels, $1.00 per bushel		6 00
900 pounds grapes at 3 cts. per pound		27 00
150 bunches radishes, 2 cts. per bunch		2 00
31 bushels parsnips at $1.00 per bushel		31 00
800 bunches celery at 10 cts. per bunch		80 00
Lettuce, beets, cucumbers, melons, cantaloupes, string beans, Lima beans, total		50 00
50 bushels potatoes, 75 cts. per bushel		37 50
150 bushels turnips at 35 cts. per bushel		37 50
		$555 50

DR.

To plowing and after-culture at $8.00 per acre	$ 80 00	
New sash	45 00	
Seeds	20 00	
½ ton Poudrette	6 00	
		$151 00
		$405 50

Five hundred loads of manure have been made on farm, which have been applied to the garden, orchard and potato crop, leaving a balance of 150 loads in barn-yard yet to be used.

Field No. 9 contains 24 acres, more than half of which is in wood ; the balance is a peach orchard not bearing. The whole is used as a hog pasture

The grove around the College needs attention. The old wagon roads, long used, have washed, and need filling and grading.

Our stock of hogs is 38 head—4 brood sows, 1 boar, 20 head killing hogs and 13 shoats. 11 hogs slaughtered last fall made 1,740 pounds pork, which was carefully put away ; lard, &c., delivered to College ; meat salted and smoked in due time.

CR.

1,740 pounds pork, 6 cts. per pound	$104 40

DR.

Value of corn used in feeding	50 00
	$54 40

DAIRY STOCK AND PRODUCT.

September 1st, 1877, 13 cows, 1 calf, 1 young bull, comprised the stock. The cows gave but little milk; the greater part were old and not of improved stock. After consulting with the President, 9 cows and bull were sold and four fresh cows purchased.

Stock sold—10 head at $20 per head	$200 00
Four fresh cows at $55 each	220 00
Expense above receipt	$ 20 00

Later in the fall, 2 additional cows were purchased at $55 each—$110,—making our herd at this time 9 in number, all of which are giving milk. The three selected from old herd came in fresh early in the winter, and our supply of milk, averaging 10 gallons per day, is sufficient.

Product of cows for 9 months, 2,700 gallons milk at 20 cents per gallon, $540.

Our small flock of sheep is the only portion of stock in which there has not been a gain. One was killed by dogs, one died,—leaving only five head. All are good specimens of the Cotswold.

Our live-stock consists of 4 mules and 2 horses. The mules are old, but do their work well, and are in good condition. The horses are used for the college work, and will not much longer be able to do it.

Much attention and labor have been given to repairing roads, cleaning ditch-banks, grubbing and cleaning fence rows,—all of which required much time. The avenue, alone, received six hundred and fifty loads of gravel, and is now in good order.

Early in the year, I was supplied with harness and farming implements.

Permit me, in closing this report, to return thanks to you, sir, for your confidence and interest taken in the success of my department.

C. J. SHIPLEY,

Superintendent of Farm.